



# Complete CLT production solutions

LEDINEK - ENGINEERED TIMBER - CLT PRODUCTION FOR MAYER MELNHOF IN LOEBEN

## High-performance plant for CLT production for Mayer Melnhof in Leoben

### State-of-the-art machinery combined with know-how convinces Mayer Melnhof once again

The new cross laminated timber plant of Mayr-Melnhof Holz in Leoben is a prime example of modern wood processing and automation at the highest level. This project, one of the largest of its kind in the world, was completed in just two years - from the ground-breaking ceremony to the production of the first CLT panel. With an area of over 3 hectares and an investment of 175 million euros in the first expansion phase, the plant represents a significant step forward in the production of high-quality cross laminated timber, with a planned annual capacity of up to 130,000 m<sup>3</sup>.

Ledinek is the main supplier for the entire spectrum of wood processing, from the raw lamella to the finished panel. The company has used its extensive experience in the realization of glulam lines to implement the largest single order in its history to date. Despite the enormous size and complexity of the project, Ledinek succeeded in meeting the high performance requirements of Mayr-Melnhof Holz through meticulous planning and the development of sophisticated detailed solutions.

The production line begins in the planing mill, where a high-performance Stratoplan 6VR-S1000 planing machine ensures the necessary throughput. From there, the planed timber packages are transferred to the cross laminated timber plant and automatically transported to the buffer and destacking stations by an ingenious shuttle system. The Kontizink 2500 finger-jointing lines, of which two are already in operation and space is planned for a third, guarantee the required output for processing the boards into lamellas for the longitudinal and transverse layers.

After finger-jointing, the lamellas are temporarily stored in an extensive multi-level storage system and efficiently handled by advanced lift systems. Final processing takes place in two third-generation X-Press presses, which can produce panels up to 16 meters long and 3.5 meters wide. The specific pressing pressure can reach a maximum of 0.8 N/mm<sup>2</sup> at full width.

Despite delivery difficulties for individual components due to the pandemic, the large-scale project was completed without any significant delays. The successful commissioning and compliance with the agreed performance figures underline the strong partnership and high level of commitment of both teams. This cooperation has not only led to the successful completion of the plant, but also to a further strengthening of the long-standing relationship between Ledinek and Mayr-Melnhof Holz.

The CLT plant in Leoben is therefore not only a technological highlight, but also an example of the successful implementation of a visionary project through perfect cooperation between customer and supplier. With this plant, Mayr-Melnhof Holz is setting new standards in the wood industry and strengthening its position as one of Europe's leading wood processors.

Company: **Mayr-Melnhof Holz Leoben GmbH**

Location: Leoben / Austria

Overall project manager: Manuel Staber

Operations manager cross laminated timber plant: Markus Thier

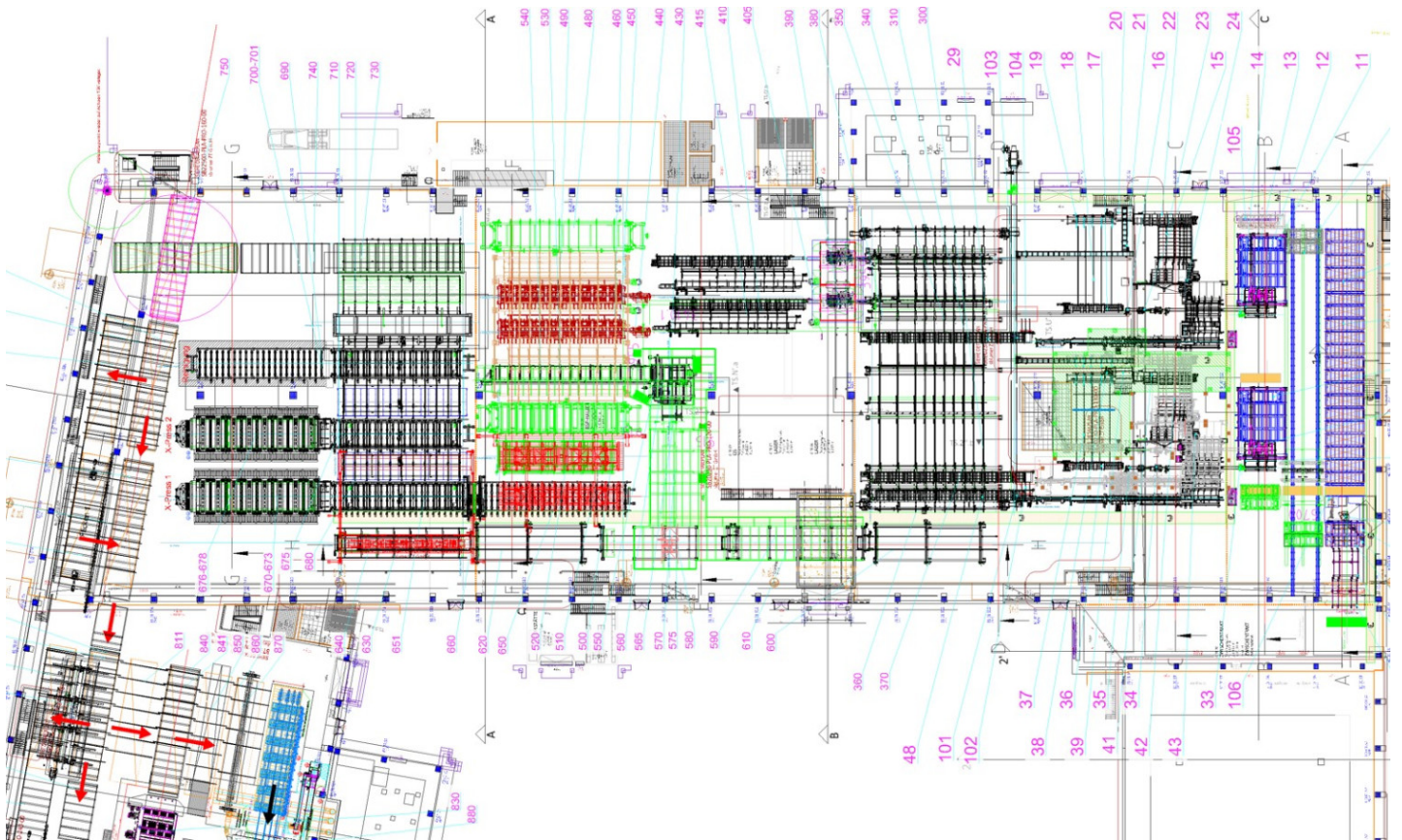
Production manager cross laminated timber plant: Martin Klingenbrunner

Cross laminated timber plant employees: 50

Type of wood: Spruce

Operators: 6 per shift

Production capacity: 130,000 m<sup>3</sup> / year in full operation



## Mega CLT production

1. Package shuttle and day storage for timber

## Facts

- Up to 16 m x 3.6 m x 0.36 m panel size

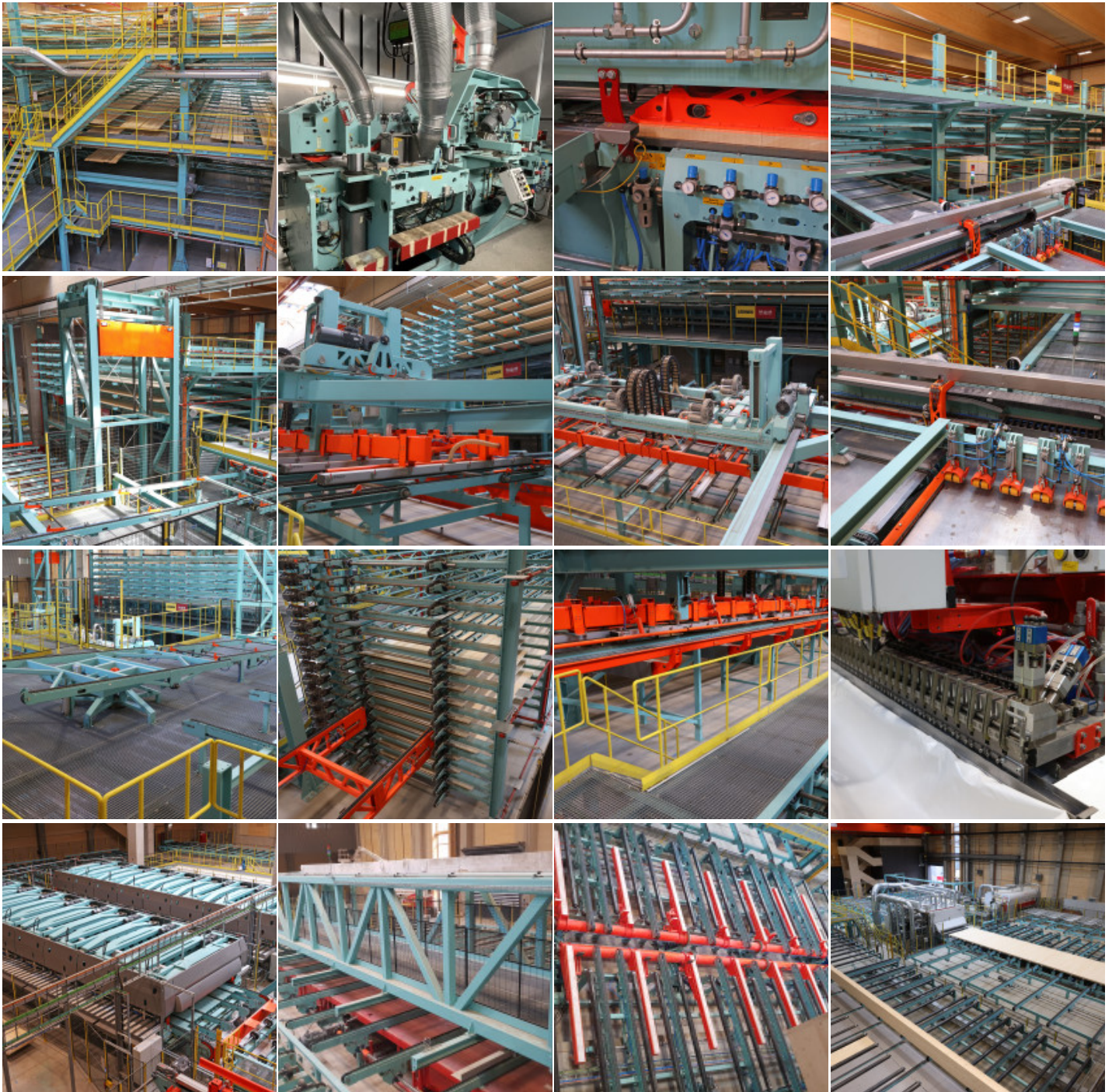
packages


2. Vacuum destacking system for 4 qualities
3. X-CUT S400 high-performance cross-cut saw with infeed
4. KONTIZINK 2500 single board finger jointing line from the KONTIZINK machine line
5. Curing store 8 levels with lifting conveyor
6. SUPERPLAN 4V-S350 four-sided planing machine with infeed
7. Z-Press 16 m edge gluing system with hot-melt adhesive for assembly bonding
8. Longitudinal layer buffer - 6 decks, 2 drive sections
9. Lifting conveyor for longitudinal layer panels
10. Longitudinal layer preparation station (pick up, align)
11. Vacuum stacking device for longitudinal laying before surface pressing
12. CLCS 1.600 cross layer cut saw
13. Turntable with mounted chain cross conveyor - 90° rotation
14. Cross-layer buffer - 15 levels, 30 panels in total
15. Vacuum stacking device for cross layer placement
16. PUR application system Oest - 3500 - CNC
17. X-Press 16 press specially developed for high end CLT production
18. Cross pusher for CLT elements with lifting table
19. Turning station for CLT elements
20. Calibration sanding machine

- Production capacity over 130,000 m<sup>3</sup>/year
- Over 200 m<sup>3</sup> shift production
- Z-Press 16 for faster and safer operation
- PUR adhesive for higher capacity
- High flexibility of the CLT production process

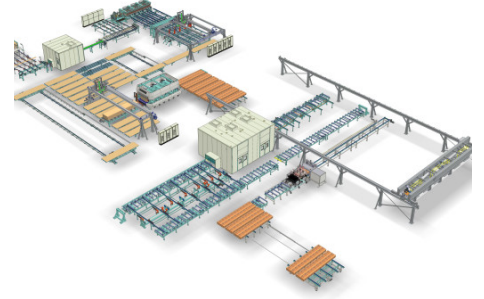
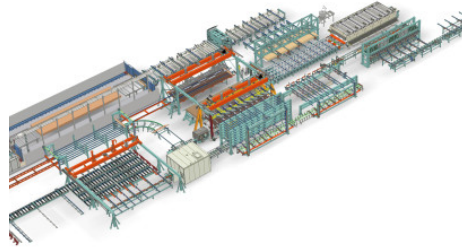
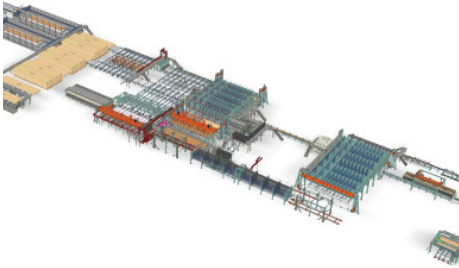
## Photo gallery





 Ledinek X-Press  
Broschüre

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After the first pilot plant for the CLT production, Södra Building Systems made another bolt move and build a big volume plant.

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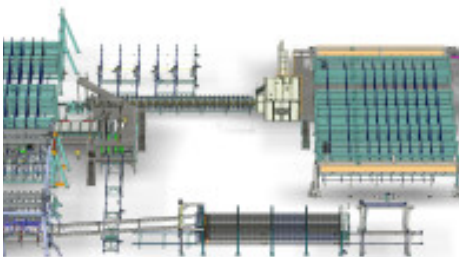
The introduction of the Arboreal project in Uruguay marks a significant milestone in the construction and environmental sectors of Latin America. As of early 2022, Uruguay is home to the region's first large mass timber factory

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### ▶ Standard cross laminated timber plant in Portugal

The company Arolla Lda invested in a plant for the production of standard CLT elements with widths of 120 and 125 cm and produces mainly for its own projects and for the local market.

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### ▶ Cross laminated timber plant at Ante in Germany

Another company in the Central European timber industry sets the course for the future. From now on, the ante Group produces CLT elements for walls and ceilings under the HBS Berga brand.

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